Post transcriptional gene silencing and peptide microarray as a way to perform drug target validation

STELLINGEN

behorende bij het proefschrift "Post transcriptional gene silencing and peptide microarray as a way to perform drug target validation"

1. Cyclodextrin based polymers are a successful tool to deliver DNAzymes to transferrin receptor containing tumor cells. (this thesis)

2. Poly(propylene imine) dendrimers can be used to achieve high nuclear uptake of DNAzymes into carcinoma cells. (this thesis)

3. The combination of ZsGreen or DsRed2 expressing cell lines with RNAi targeting these fluorescent proteins provides a powerful tool for the analysis of non-viral gene delivery vehicles. (this thesis)

4. Active PLK4 is specifically localized to the proximal end of the mother centriole during S-phase. (this thesis)

5. The targeted approach in drug discovery has failed to design new chemical entities. (Solari R. : The Drug Discovery Process, *Molecular Anaylsis and Genome Discovery* ; 2005)

6. In drug discovery reverse genetics via phenotypical screens is the preferred approach over forward genetics, which should be regarded as a high risk strategy.

7. Better animal models are needed in biomedical research and industry to make another quantum leap forward.

8. Loss of function studies in animal models will revolutionize preclinical research only under the condition that better *in vivo* gene delivery systems will become available.

9. Victory does not belong to those who are smarter or stronger, but to those who pursue it the longest.

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